

ETHYLENEAMINES PRODUCT STEWARDSHIP DISCUSSION GROUP

8EHQ-0702-15167

July 3, 2002

Via Certified Mail

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TSCA Section 8(e) Coordinator
Document Control Officer (MC-7407)
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460-0001

Contain NO CD.

Re: Toxic Substances Control Act -- Section 8(e)



88020000153

Dear TSCA Section 8(e) Coordinator:

The Ethyleneamines Product Stewardship Discussion Group (EPSDG), c/o Mr. William C. Hayes, The Dow Chemical Company, 1691 N. Swede Road, Midland, Michigan 48674, submits to the U.S. Environmental Protection Agency (EPA), pursuant to Section 8(e) of the Toxic Substances Control Act (TSCA), interim results of an Organization for Economic Cooperation and Development (OECD) 421 Reproduction/Developmental Toxicity Screening Test in Wistar rats (strain CrIGlxBrHan:WI) with 2-(2-Aminoethylamino)ethanol (CAS No 111-41-1).

The EPSDG is comprised of the following companies: Akzo-Nobel Functional Chemicals, LLC, BASF Corporation, The Dow Chemical Company, Huntsman Corporation, Delamine B.V., and Tosoh Corporation. The study was conducted as part of the voluntary High Production Volume (HPV) Challenge Program and the International Council of Chemical Associations (ICCA) Global Initiative. The study was performed by BASF Aktiengesellschaft, Ludwigshafen, Germany.

This information is being submitted, as required under TSCA Section 8(e), within 15 days after the date this information was obtained. A summary describing the nature of the adverse effects being reported is discussed below.

- **Methods:** The study was carried out in accordance with the requirements of OECD Guidelines for Testing of Chemicals, Guideline 421 and EPA, Health Effects Test Guidelines, OPPTS 870.3550. The test substance was administered as an aqueous solution by oral gavage to 10 male and female rats per group at doses of 0, 50, 250, and 1,000 mg/kg-bw. The males

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Akzo Nobel Functional Chemicals LLC • Mr. Mark R. Schroeder • 5 Livingstone Ave • Dobbs Ferry, NY 10522
BASF Corporation • Ms. Patricia A. Cruse • 3000 Continental Drive • Mt. Olive, New Jersey 07828
Delamine B.V. • David J. Buckland, Ph.D. • c/o 1203 Nineteenth Street • Suite 300 • Washington, DC 2003
Tosoh Corporation • Ms. Ayako Kosone • c/o 1100 Circle 75 Parkway • Suite 600 • Atlanta, Georgia 30339

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were treated for approximately 5 weeks, 2 weeks pre-mating, 2 weeks mating, and 1 week post-mating. In females, the treatment lasted from 2 weeks pre-mating, 2 weeks mating, and gestation through day 4 post-delivery. Developmental toxicity was assessed through an examination of day 4 pups.

Results: In summary, at the high dose level (1,000 mg/kg-bw) there was a 23% reduction of body weight and the dams produced no offspring. There was a 70% reduction in pup survival at the mid dose (250 mg/kg-bw), and developmental malformations of the major pericardial blood vessels was seen in both the mid (250 mg/kg-bw) and low dose levels (50 mg/kg-bw).

Any subsequent information regarding the developmental toxicity of this chemical from this study that is considered to present a substantial risk to human health or the environment under TSCA Section 8(e) will be submitted to the Agency.

If you have any questions, please contact Lynn Bergeson at (202) 557-3801 or lbergeson@lawbc.com.

Sincerely,

/s/

William C. Hayes, Chair
Ethyleneamines Product Stewardship
Discussion Group

cc: Ethyleneamines Product Stewardship Discussion Group (via e-mail)